5.(AMENDED) Method according to claim 3, wherein motion vectors are calculated separately for those sub-fields having the higher sub-field weights.

6.(AMENDED) Method according to claim 3, wherein the resulting motion vectors calculated from single bit pictures for a pixel are averaged and the averaged motion vector is used to calculate corrected sub-field code word entries for the sub-field code words.

7.(AMENDED) Method according to claim 1, wherein for the determination of corrected sub-field code words sub-field entry shifts are calculated for a given pixel based on the calculated motion vector and wherein the sub-field entry shifts determine which sub-field entry in the sub-field code word of a given pixel need to be shifted to which pixel position along the direction of the motion vector.

8.(AMENDED) Method according to claim 1, wherein it is used in a plasma display device for dynamic false contour compensation.

9.(AMENDED) Apparatus for performing the method of claim 3, having a sub-field coding unit for each colour component video data, wherein, the apparatus further has motion estimators for each colour component and the motion estimators are sub-divided in a plurality of single bit motion estimators which receive as input data the single bit pixels from the sub-field code words for performing motion estimation separately for a single sub-field and that the apparatus has a corresponding plurality of compensation blocks for calculating corrected sub-field code word entries.

IN THE ABSTRACT:

Please add the following Abstract.

-- With the new plasma display panel technology new kinds of artefacts can occur in video pictures due to the principle that brightness control is done with a modulation of small lighting pulses in a number of periods called sub-